

Title (en)  
FREQUENCY RESPONSIVE BUS CODING

Title (de)  
FREQUENZRESPONSIVE BUSCODIERUNG

Title (fr)  
CODAGE DE BUS SENSIBLE À LA FRÉQUENCE

Publication  
**EP 2443558 B1 20150218 (EN)**

Application  
**EP 09846307 A 20091201**

Priority  
• US 2009066253 W 20091201  
• US 2009003697 W 20090618  
• US 13258508 P 20080620

Abstract (en)  
[origin: WO2009154797A2] A data system (102) permits bus encoding based on frequency of the bus, an encoding scheme may be implemented to avoid undesirable frequency conditions such as a resonant condition that may lead to degradation in system performance. The device or integrated circuit will typically include an encoder; in one embodiment, the encoder is a data bus inversion (DBI) circuit that selectively inverts all lines of a data bus. A detector that may include a band-pass or stop-band filter that, for example, evaluates data for transmission on the bus to detect frequency, for example, a predetermined frequency or a frequency range. The detector provides a control signal for the encoder to selectively apply an encoding scheme as a function of frequency.

IPC 8 full level  
**H04L 25/49** (2006.01)

CPC (source: EP US)  
**H04L 25/49** (2013.01 - EP US); **H04L 25/4915** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2009154797 A2 20091223; WO 2009154797 A3 20100729; WO 2009154797 A4 20100930**; EP 2294770 A2 20110316;  
EP 2294770 B1 20130807; EP 2443558 A1 20120425; EP 2443558 A4 20130626; EP 2443558 B1 20150218; JP 2011525093 A 20110908;  
JP 2012531092 A 20121206; JP 5588976 B2 20140910; JP 5606527 B2 20141015; US 2011084737 A1 20110414;  
US 2011127990 A1 20110602; US 8451913 B2 20130528; US 8498344 B2 20130730; WO 2010147608 A1 20101223

DOCDB simple family (application)  
**US 2009003697 W 20090618**; EP 09767110 A 20090618; EP 09846307 A 20091201; JP 2011514626 A 20090618; JP 2012516045 A 20091201;  
US 2009066253 W 20091201; US 97121310 A 20101217; US 99949509 A 20090618